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METEOROLOGICAL DATA REPORT

193068 MLRS Missile Nos. 1126, 1128 Round Nos. V-109, V-110

by

White Sands Meteorological Team

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Round Numbers V-109 and V-110,	6. PERFORMING ORG. REPORT NUMBER
4 February 1980.	S. CONTRACT OR GRANT NUMBURAN
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White Sands Meteorological Team	DA Task 1F6657,82D127-02
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20. SETRACT (Continue on reverse side H necessary and I	Identify by block number)
Meteorological data gathered for Numbers 1126 and 1128. Round Numb	the launching of the 19306B MLRS, Missile ers V-109 and V-110 are presented in
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INTRODUCTION

19306B MLRS	, Missile Numbers		, Round Numbers
V-109 and V-110	, were launched from		, White Sands Missile
Range (WSMR), New M		and 1000:06	MST, 4 February 1980.
The scheduled launc	h times were 1000	and 1000:04	MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature ($^{\circ}$ C), relative humidity, dew point ($^{\circ}$ C), density ($^{\circ}$ gm/m³), wind direction and speed, and cloud cover were made at the <u>Snake</u> Met Site at T-O minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

Snake 360 meters Denver 800 meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 47,000 feet in 500-feet increments.

SITE AND TIME

Jallen 1000 MST

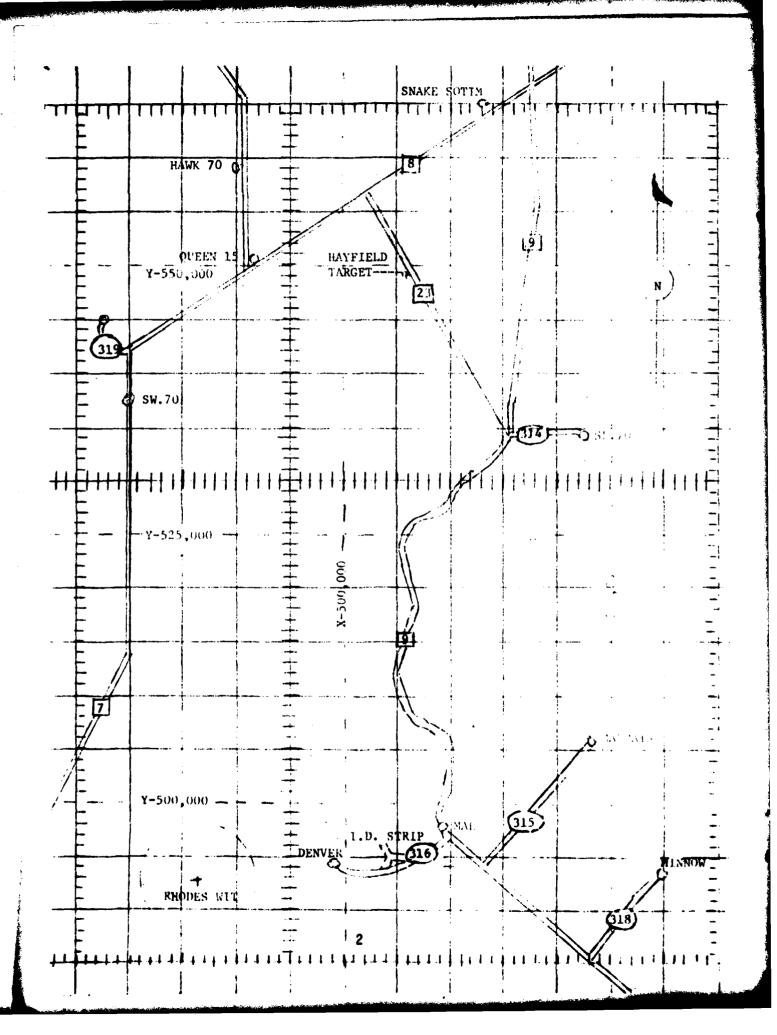


TABLE 1. Surface Observations taken at 1000 MST, 04 February 1980, at Snake Site, 19306B MLRS, Missile Numbers 1126 and 1128, Round Numbers V-109 and V-110.

ELEVATION	Unknown	FT/MSL
PRESSURE	867.5	MBS
TEMPERATURE	14.0	°C
RELATIVE HUMIDITY	40	%
DEW POINT	0.6	°c
DENSITY	1047	GM/M ³
WIND SPEED	Calm	KTS
WIND DIRECTION		DEGREES
CLOUD COVER	1	Ci

PILOT BALLOON MEASURED WI'ND DATA

TABLE	2							
PELEASED	FROM Sn	ake Site	DATE	04 Febr	uary 1980		TIME 0800	MST
TRACKER	coo	ORDINATES	(WSTM) X=	Unknown	. Y =	Unknown	H Unk	nown
NOTE: W	IND DIRECTI	ONS ARE R	EFERENCED T	O TRUE NOR	TH			
HEI GHTS	ARE METERS	AGL_XX 0	R FEET AGL_	•				
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEYGHT AGL	DIRECTION DEGREES	SPEFD KTS	HEIGHT	DIRECTION DEGREES	SPEED KTS
SFC		CALM						
60	180	02						
120	180	03						
180	180	05						
240	180	06						
300	180	08						i
360	180	09						
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PILOT BALLOON MEASURED WIND DATA

TABLE_3					•				
RELEASED	FROM Snal	ce Site		DATE	04 Febru	ary 1980		TIME 0950	MST
TRACKER	c00	RDINATES	s (W	STM) X=_	Unknown	Y =	Unknown	H= Ur	known
NOTE: W	IND DIRECTI	ONS ARE	REF	ERENCED TO	TRUE NORT	н			
	ARE METERS								
HEIGHT	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HE I GH		SPEED KTS
SFC		CALM							
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120	173	06							ļ +
180	171	07							
240	171	07							
300	170	07							
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PILOT BALLOON MEASURED WIND DATA

TABLE 4									
RELEASED	FROM St	nake Sit	e	DATE	04 Febr	uary 1980		TIME 10	000 MST
TRACKER	C00	RDINATE	s (ws	STM) X=	Unknown	γ=	Unknown	H= Ur	known
NOTE: W	IND DIRECTI	ONS ARE	REFE	ERENCED TO	O TRUE NO	RTH			
HEIGHTS A	ARE METERS	AGL_XX	OR I	FEET AGL_	 .•				
	DIRECTION DEGREES	SPEED KTS			DIRECTION DEGREES		HEIGHT	DIRECTION DEGREES	SPEED KTS
SFC		CALM	L						
60	150	01							
120	150	02							
180	150	03							
240	150	03							
300	150	05							
360	135	05							
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PILOT BALLOON MEASURED WIND DATA

TABLE 5		ver Site		DATE	04 Febr	uary 198()	TIME 10	120 MST
								12 H= 4	
					O TRUE NO		t m land. I m land a specie com		
HEIGHTS .	ARE METERS	AGL_XX	OR F	EET AGL_	·•				
AGL	DIRECTION DEGREES	KTS			DIRECTION DEGREES		HEIGH1	DIRECTION DEGREES	SPEED KTS
SFC	030	02							
90	MISG	MISG							
150	MISG	MISG							
210	090	03							
270	135	03	1						
330	130	06] [
390	135	03							
500	020	03							
650	355	09							
800	320	12		*					
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PEET MSL	RS NS	
DE 4051.00 PEEF MSL	1 0001	ç
SIMIIUM ALTITUDE	4 F.B. 50	E1,5101. NO.
SIA	*	3

SIGNI TOWN LEVEL UNIA	0.000,000,00	JALLEM	TABIF 6
1911			

GEODETIC COORDINATES 33.16712 LAT DEC 106.49511 LOB DEG

PRESSURE		TCMPI	TEMPERA LUKE	
i	ALTITIVE	AIR	DCM'SOI''L	PLRCE.4T
MILLIBAKS		DEGREES	CENT 16,4AUL	
880.8	4751.3	13.0	÷.	42.0
8/1.0	4.353.5	10.3	-1.5	43.0
U-4CB	4477.4	4.1	-1.0	47.0
0.008	5024.5	6•6	-1.6	40.1
784.2	7225.9	10.8	-13.0	19.01
7.00.0	10305.3	5.9	-10.0	14.0
558.6	17193.9	-t3.A	7.02-	18.9
<u>55</u>	19041.4	-13.9	-33.0	18.0
400.9	20767.0	-17.9	4.6.	0.00
450.6	21609.9	-20.3	2./2-	55.6
433.3	22559.7	-22.0	1.20-	39.0
•	6.47025	-23.0	-50.0	0.70
413.6	25676.1	か・カベー	1000	75.0
400.0	24475.6	-46.0	こったご	24•0
5.7%	24743.3	-27.0	-35-3	0.66
2000	27954.1	54.4	ナ・さまし	35.0
313.0	30155.4	-40.0	-t-7.	こ・ナウ
300.00	31103.0	1.24-		
250.0	35963.5	-53.2		
2.13.4	3474.1.7	-63.3		
20:00	39501.3	-63.0		
143.3.8	411747.9	7.00)-		
•	2751.	-to] • 5	•	
165.2	4553.3.9	-50.0		
162.0	43990.5	-60.1		
155.0	6.26044	D•69-		
150.6	3	-63.3		
139.0	47101.2	-63.3		

TARIE 7 (CC	ń	SCE. STO. NO.
JALLEM	LOUD HES MSI	4 PLB 80
0.5500.3003.00	STATION ALTITODE 4051-00 PEET MSL	JATION ALTI
UPPER AIK LY		

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Sin a Mild a		•			19F1 FM)		33.5	16712 LAT NEG
ASCENSION NO.	?	•	•		7	(cont)		106.4	106.49511 LON LEG
GEURE IAIC	PRESSURE	jei a J	SEMPERATURE	REL.HIM.	DEMSILY	SPELO OF	WING DATA	T.A.	INDEX
		AIR		PERCENT	GMZCUISTC	SUGAN	DIRECTION.	SPEEU	OF
MSL FEE!	HILLIJAKS	DEGREES	Cert igrade		MLTEX	KITOLIS	DEGREES (114)	K1013	KLPKAC I I UM
4051.0	4811.8	13.0	3	42.0	1063.4	6.9.9	9.	•	1.09026.7
4500.0	660.5	10.3	-1.3	44.1	1062.2	650.7	つ・す	1.6	1.000203
2.6005	820.8	9.8	-1.2	46.2	1040-0	650.1	7. *	S.3	1.000259
5548.0	832.0		-2.8	7.0 +	1025-1	4.000		5.1	1.00025.2
0.0000	850.5	ċ	€. ••	.54.0	1000.0	0.000	?	a•9	1.000244
6.500.0	802.3	10.5	-7.3	27.9	947.4	650.1	332.7	D.0	1.0002.7
70,000	/ • 06/		-10.2	21.0	696		21001	12.4	1.0002/9
7.,00.0	170.3	10.4	-12.5	17.6	952-8		301.0	15.1	1.0002.3
0.00(18	16201	9.6	-13.7	17.1	953∙1	655.4	245.4	17.A	12000.
d500.0	2.947	8•B	-14.9	16.9	983.6	4.400	294.5	19.0	1.000215
2000.0	134.5	8	-16.2	16.1	909.4	6600	294.2	21.7	1.000.11
4566.0	/21-1	7.2	-17.4	15.3	895.4	052.5	50468	23.4	1.000297
10000	7.27	1. C	-18.7	14.5	8,11.6	651.0	295.2	25.6	1.000203
10200.0	2·+60	5. 5	a.61-	14.1	860.1	050.5	275.4	20.0	1.000260
11600.6	081.1	7.2	-50.4	14 · 4	9.20g		295.1	59.6	1.000196
11500.6	5 0000	¥•9	-21.0	14./	842.0	0.0,0	224.7	31.6	1.000193
12000.0	056.1	2.3	-21.6	15.0	629.3	_	293.3	33.0	1.000190
12500.0	0,13.1	1.2	-22.3	15.3	610.0	_	291.7	34.3	1.000167
15000	631.5		-23.0	15.6	404.5	_	2920	35.7	1.000124
	010	J	23.6	15.9	702.4		3.468	37.2	1.000181
74600.0	9-200	7.50	-24.5	16.1	740.5	_	3. + A.Y.	58.7	1.004178
1.5.30.6	536.3	-3.1	-24.0	10.4	7.56.7	_	594.6	† · C †	1.000175
15000.0	365.C	T • 1	-25.7	16.7	757.2		295.6	42.7	1.000173
155110.0	3.470	7.0-	25.53	0./1	8+S+Z	•	7.262	٠. د د د د د د د د د د د د د د د د د د د	1.000176
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100001	310.8	4071-	7.15-	0.61	6.62°		2007	2.02	1.0001
19000.0	5000	-13.6	9-25-	3.6	6/2/2		209.9	51.0	1.000152
19500.0	8.064	-15.0	-31.5	22.7	(62.0		290.0	52.9	1.000150
20000	431.0	-10.1	-30.4	27.9	1.169		269.0	54.7	1.000148
20500.0	471.4	-17.2	-23.6	33.0	641.5	6.5.0	2080	55.5	1.000140
21000-0	*62.0	-18.5	-24.5	40.9	6.51.07		260.7	55.0	1.000144
21500.0		-20·n	-27.2	52.5	622 • 5		Z83.4	24.1	1.000143
22,000.7	ŧ	-51.5	2-17-	5 4 5	6.210		200.5	55.5	1.00140
6.5113.2		-22.5	-37.3	C	4.500	F.071	2005	51.9	1.000137
£ 31,00.0	ຄຸ	-23.6	-28.0	6/.3	593.7		2000	•	1.000133
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SIATION ALITI 4 FEH+ 80 ASLE,45100 140+	UDE 49 33	I	FER MSI KS MSI		JALLEN TABLE 7 (CC	osi (cont)		33. 106.	SEODETIC COOMDINATES 33.10712 LAT DEG 106.49511 LOH [FEG
Georginic Alitium Molefel	PRESSURE	Alk HEGRE	ENPERATURE Dewpolat ES Ceatignans	REL.HIM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SCUIND RALTS	*IND DATA DIRECTION S DEGREES(IN) K	TA SPEED KNOTS	INDEX OF REFIRACTION
					•	·		•	
24680.0	*PO*	-25.6	-28.7	74.6	573.9	613.1	7.067	56.0	1.000131
24599.0		-26.6	-29.9	73.2	h • 1795	611.8	291.4	56.9	1.000129
3.00005	-160	-27.1	52.8	58.5	553.8	011.2	292.0	9.95	1.000126
255,90.0	Ī	-56.4	-3.4.6	54.5	544.9	9.60	273.4	56.4	1.000123
200002		7-53-0	-36.5	50.6	5.30 • 0	hu3.1	243.7	56.1	1.000121
20:00.0	·	-30.0	-3H.5	9.91,	527.4	G.00.0	295.0	52.9	1.000119
2/p110.a	-	-32.1	5.04-	42.6	513.9	6:12.0	293.2	55.R	1.900117
275,00.0	351.6	-33.5	-42.5	34.6	510.5	4.609	292.0	55.2	1.000115
C-00-182	1.440	-34.5	-44·5	35.0	502.3	8.10a	7-167	54.1	1.000113
201,000		-35.4	1.54-	34.6	0.464		5-168	24.5	1.000.1
290000	324.3	-37-1	-47.0	34.5	485.9		47162	55.0	1.000109
23200.3	•	-39.5	-4H.2	54.5	477.9		291.0	57.0	1.000107
20:100.0		-39.0	40.4-	34.1	470.0	5,00	292.4	59.5	1.000105
30500-0		-41.0	-54.4	21.6**	h•30h		292.7	59.0	1.00016.5
31,000.6		-45.4	-63.B	3.7**	455.0		7.67	57.6	1.000101
21:,00.0		-43.d			447.3	5,00.1	293.5	55°8	1.0001:30
32000.0	_	-45.1			4.59 • 7	5,00	27.10	53.0	1.000049
352100		1001			432.2		294.0	55.0	1.0000
551,09.9	-	1.7.4			で・すべき		290.5	\$ 000°	1.000095
35.00.0		1.9.1			417.0		3.00	28.7	1.00005
24000-0		-20.4			9•11 tr		1.162	1.10	1.0000.1
34500.6	_	-51./			403.6		1.662	62.5	366006.1
350,000		-55°			5.00 m	D-2/C	300.4	63.7	1.00000:0
いっついっこう		2.+6-			2.000	3.07.0	20105	1.40	1:00001
30,100.0		-55.0			345.		302.0	٠٠٠ ود	1.0000.55
3000 UN. D		150.0			C+C/2		30.2.5	0-1-9	1.000004
3/600.0		-27.8			30.00		2020	9•69	7.0000
0/5/10-0		-58·n			361.5	2.070	3.505	63.1	1.0000:1
34000.0		-600-1	•		354.9	5,000	305.4	62.7	1.006079
3-60 305		-61.3			340.0	5,.7.0	30.5.0	62.4	1.000018
3.70,00.0		-62.5			341.	4. 000	302.3	62.3	1.000076
39°00.0	201.8	-63-4			3.35 • 2	5,4.2	301-6	62.3	1.000075
0.0000×	4.961	-62.1			320.0	5,5,1	3005	5.49	1.000073
401,00	1-761	-61.4			316.0	8.009	524.9	66.5	1.000070
41000-6	167.5	-60.8			307.6	5,7.7	297.1	67.5	1.000069
41500.0	183.0	•			300.4	507.4	290.5	68.3	1.00000
4.000.0	C-97.1	-61.2			293.4	20,7.5	293.2	67.3	1.0000/5
425,00.n	74.5	-61.4			2000h	9.00	591.0	65.1	1.000004
יטטטי	1.071	-61.3			27.00	50,7.0	200.9	62.8	1.00002
4.54.00.0	762.	7.04			17.03	0.755	287.52	3,000	1,0000

STATEM: ALITIME 4051.00 FEET MSL 4 FEB+ 40 1000 HIS MST ASCENSION NO. 33	.(ffune 40;	51.90 FEE 100n HKS	I KSL MSI	_	UPPER AIN LATA 0.500300.5 JALLEN TABLE 7 (cont)	LATA Los (cont)		33. 33.	GEODETIC COCHDINATES 33.10712 LAT LEG 106.49511 LON GEG
GEUFE IKIC PRESSUKE ALIITUDE MSL FEET HILLIBAMS	PRESSURE HILLIBANS	TEMP AIR Degrees	PRESSURE TEMPERATURE AIR DEMPOINT HILLIBANS DEGREES CENTIGRADE	rel.Him. Percent	REL.HIM. DENSITY SPEED OF PERCENT CM/CUBIC SOLUTO NETER KILCTS	SPEED OF SOUND KRUTS	WIND DATA DIRECTION SI DEGREES(IN) KI	NTA SPEED KLOTS	INDEX OF REFRACTION
100000 100000 100000 100000 100000 100000 100000 100000	161.9 158.0 158.0 150.4 140.0 140.0 139.7	161-1-161-1-161-1-161-1-161-1-161-1-161-1-161-1-161-1-161-1-16			264.0 255.4 255.6 255.7 257.7 251.9	0 + 1 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	265.4 264.3 264.3	00 4 4 0 5 0 4 4 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.000658 1.000658 1.000657 1.000656 1.000654 1.000054

MANNATOPY LLVELS	2,002,002c0	JALLEN	TABLE 8
	SIAIJUN ALTITUDE 4651.00 PELT MSL	# FEE: 80 1000 HRS ASI	ASCE!Stup 1:00. 33

JEODETIC COOMDINALES 33-16712 LAT DEG 106-49511 LOI. DEG

PHESSURE GEOPOTENTIAL	EUPOTENTIAL		TEMPERA IUKE	REL .HUS.	WILL PATA	ATA
MILLIHAKS	FEET	AIK DEGNEES	DEWPOILI CENTICKADE	PERCENT	DEGREES(IN)	SPEED
850.0	5021.	6.0	-1.2	ţ.	4.5	3.4
A00.0	£675.	10.6	₹.e.	• 0 7	340.5	10.5
750.0	84.44	8.9	7.41-	17.	294•4	19.6
700.0	10206.	5.9	-19.5	14.	290.4	27.1
656.0	12270.	1.8	-22.0	, (1)	292.4	25.7
600.0	14368.	-2.7	1-54-7	16.	504.5	39.9
550.0	16610.	-7.6	6-12-	18.	291.5	1001
5000	19016.	-13.9	-33.0	10.	290.0	51.3
450.0	21611.	-20.4	-27.1	4.7	288·4	53.7
400.0	24436.	-20.6	-29∙€	74.	291.5	5h.9
350.0	€ 75€.0 •	-33.5	-42.9	90	292.4	J
300.0	.44010	-42.7		ı	293.2	57.4
250.11	*U0547	-53.2			300.0	63.8
200.0	39549.	-63.6			301-1	63.0
175.0	42306.	-61.4			291.5	9.50
5 63.	1000				•	

** AT LEAST WHE ASSUMED HELATIVE HAMIDINY VALUE WAS USED IN THE INTERPOLATION.